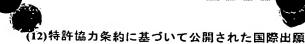
ABSTRACT

Sal

A hybrid drive apparatus comprises: an engine (1); a first electric motor (2) for generating an electric power by using at least a portion of its output and for controlling the speed of the engine 1 by motoring; and a control unit (U) for controlling the engine and the first electric motor. The control unit (U) performs a prepositioning control for positioning the engine being fuel-cut to a predetermined cranking start position such as a constant crank angle position or a constant cranking load position by the motoring of the first electric motor. As a result, the engine can always be started under identical conditions, and the torque vibrations to be outputted to a wheel have identical waveforms so that a simple torque correction can be made by outputting corresponding waveform data.



(19) 世界知的所有権機関 国際事務局



(43) 国際公開日 2002年1月17日(17.01.2002)

PCT

(10) 国際公開番号 WO 02/04806 A1

F02N 11/08, B60K 6/00, B60L (51) 国際特許分類7: 11/14, F02D 29/02, 29/06, F02N 11/04

(21) 国際出願番号:

PCT/JP01/0602

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(22) 国際出願日:

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(25) 国際出願の言語:

日本語

(81) 指定国 (国内): JP, KR, US.

(26) 国際公開の言語:

日本語

(30) 優先権データ: 特願2000-209587 .2000)

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(84) 指定国 (広域): ヨーロッパ特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

添付公開書類: 国際調査報告書

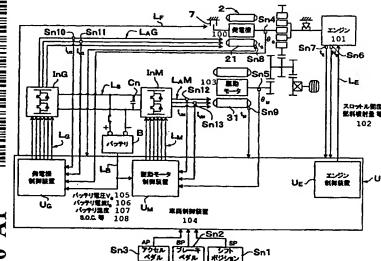
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2文字コード及び他の略語については、 定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

(54) Title: DRIVE DEVICE

(54) 発明の名称: 駆動装置



100...GENERATOR

101...ENGINE

102...THROTTLE OPENING, FUEL INJECTION QUANTITY, ETC.

103...DRIVE MOTOR

104... VEHICLE CONTROLLER

105...BATTERY VOLTAGE Va 106...BATTERY CURRENT IB

107...BATTERY TEMPERATURE

108...S.O.C. ETC.

B...BATTERY

Snl...SHIFT POSITION

Sn2...BRAKE PEDAL

Sn3...ACCELERATOR PEDAL

U...ENGINE CONTROLLER U....GENERATOR CONTROLLER

U.... DRIVE MOTOR CONTROLLER

(57) Abstract: A hybrid drive device, comprising an engine (1), a first electric motor (2) generating a power using at least a part of the output of the engine (1) and controlling the speed of the engine (1) by motoring, and a controller (U) controlling the engine and the first electric motor, wherein the controller (U) performs a pre-positioning control positioning the engine during fuel cutting at a specified cranking start position such as a fixed crank angle position and a fixed cranking load position by the motoring of the first electric motor, whereby, because the engine can be started always under the same conditions and a torque vibration output to wheels forms the same waveform, a simple torque compensation is allowed by outputting waveform data corresponding to the same waveform.